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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/814,187	03/21/2001	Shigeaki Watanabe	NAK1-BA81a	7440
21611 7590 11/28/2007 SNELL & WILMER LLP (OC) 600 ANTON BOULEVARD SUITE 1400 COSTA MESA, CA 92626			EXAMINER PARRY, CHRISTOPHER L	
			ART UNIT 2623	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

09/814,187

Applicant(s)

WATANABE ET AL.

Examiner

Chris Parry

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 September 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 43-55 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 43-55 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date. _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on September 28, 2007 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 43-53 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 43-50 and 52-53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Throckmorton et al. "Throckmorton" (USPN 5,818,441) in view of Shoff et al. "Shoff" (USPN 5,900,905) [cited in previous office action].

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Regarding Claims 43 and 53, Throckmorton discloses a data display control apparatus (34 – figure 2) that receives a plurality of pieces of content data repeatedly transmitted from a transmission system (10,14,16,20,26,30 – figure 2) via a one-way communication path (32 – figure 2), and changes display of the received content data in accordance with interactive operations input by a user (Col. 4, lines 28-33), without accessing a headend (Col. 4, lines 6-15), the plurality of pieces of content data having been linked to each other by hyperlinks and multiplexed (Col. 5, lines 21-31), the data display control apparatus comprising:

- a receiving unit (36 – figure 3) for receiving a...transport stream having a plurality of contents therein which make up a broadcast program (Col. 6, lines 29-30);

- an extracting unit (36 – figure 3) for separating data necessary for a display of each of the plurality of contents from the...transport stream received by the receiving unit (Col. 6, lines 31-35);

- a data storage unit (80 – figure 3) for storing the separated data (Col. 7, lines 30-47; Col. 3, lines 12-14);

- a display control unit (84 – figure 3) for controlling the display of the plurality of contents in response to performance of an interactive operation by the user...(Col. 7, lines 36-52).

However, Throckmorton fails to disclose a receiving unit for receiving an MPEG 2 transport stream, a display control unit, a present time information obtaining unit, and a time information judging unit.

In an analogous art, Shoff discloses a data display control apparatus (18 – figures 1 & 2), comprising:

a receiving unit (50 – figure 2) for receiving an MPEG 2 transport stream having a plurality of contents therein which make up a broadcast program (Col. 2 lines 59–67, Col. 3 lines 14–20), the plurality of contents each being a unit of information for which interactive operations are provided to a user to be performed (Col. 6 lines 17–38), each unit of information including link information for indicating at least one of the other units of information (Col. 6 lines 47–50), whereby performance of one of the interactive operations provided to the user by the unit of information being displayed will cause the linked unit of information to be displayed (Col. 6 lines 20–28);

an extracting unit (58 – figure 2) for separating data necessary for a display of each of the plurality of contents from the MPEG 2 transport stream received by the receiving unit (Col. 5 lines 39–45, Col. 7 line 66 – Col. 8 line 10);

a data storage unit (60 – figure 2) for storing the separated data (Col. 8 lines 8–10);

a display control unit (58 – figure 2) for controlling the display of the plurality of contents in response to performance of an interactive operation by the user (Col. 5 lines 46–59, Col. 6 line 55 – Col. 7 line 24), wherein each of the plurality of contents has at least one instruction for controlling the display of the content and time control information for indicating a time at which the instruction is to be executed (Col. 9 line 66 – Col. 10 line 10), and link information for indicating at least one of the other contents before the time specified by the time control information (Col. 10 lines 36–49);

a present time information obtaining unit (system clock) for obtaining a present time (Col. 9 lines 58-61); and

a time information judging unit for judging whether the instruction should be executed by comparing the present time with the time indicated by the time control information (Col. 9 lines 58-61), wherein

the display control unit (58 – figure 2), in the case where the time information judging unit judges that the instruction should be executed, changes the display of the currently displayed content by executing the instruction (Col. 9 lines 50-65), and the display control unit executes an instruction specified by handler information included in the MPEG 2 transport stream in response to performance by the user of one of the interactive operations by the user, to change the currently displayed content into one of the other contents indicated by the link information included in the currently displayed content (Col. 8, line 44 – Col. 9, line 1).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Throckmorton to include a receiving unit for receiving an MPEG 2 transport stream, a display control unit, a present time information obtaining unit, and a time information judging unit as taught by Shoff for the benefit of providing users the ability to interact with external data sources by simulating two-way connectivity over a one-way data stream.

As for Claim 44, Throckmorton and Shoff disclose, in particular Shoff teaches the data display control apparatus of claim 43 further comprising: an operation indication

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receiving unit for receiving an operation indication inputted by a user (66 – figure 2; Col. 5, line 60 to Col. 6, line 3), wherein

the time control information includes, for each of the operation indications, a combination of (a) a piece of handler information specifying an instruction (Shoff: 172 – figure 7b) in correspondence with each of the operation indications, and (b) a valid period of the piece of handler information (166, 168 - figure 7B; Col. 10 lines 36-49); and

in the case where the display control unit is displaying a content and the operation indication receiving unit has received an operation indication from the user, the display control unit changes the display of the currently displayed content by executing the instruction specified by the piece of handler information, if the present time obtained by the present time information obtaining unit is within the valid period that is combined with the piece of handler information corresponding to the operation indication received (Col. 8 line 51 – Col. 9 line 1).

As for Claim 45, Throckmorton and Shoff disclose the data display control apparatus of claim 44, in particular Shoff teaches wherein the instruction is an instruction for switching the content being displayed over to the linked content indicated by the link information of the content being displayed, and the display control unit changes the content being displayed into the linked content by executing the instruction (Col. 12 lines 9-28).

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As for Claim 46, Throckmorton and Shoff disclose the data display control apparatus of claim 44, in particular Shoff teaches wherein each of the plurality of contents includes on-screen information for forming image data and on-screen graphics to be displayed superimposed on the image data (Col. 11 lines 15-36), the on-screen information includes, for each of the on-screen graphics, initial state information for indicating a state of the on-screen graphics at a beginning of a display of each of the plurality of contents, the instruction includes another instruction for changing the state of the on-screen graphics being displayed, and the display control unit, upon displaying each of the plurality of contents, displays the on-screen graphics in the state indicated by the initial state information, and in the case where the time information judging unit judges that the instruction should be executed, changes the state of the on-screen graphics being displayed, by executing the instruction (Col. 12 lines 29-41).

As for Claim 47, Throckmorton and Shoff disclose the data display control apparatus of claim 44, in particular Shoff teaches wherein

each of the plurality of contents includes on-screen information for forming on-screen graphics that are displayed elements in each of the plurality of contents (Col. 11 lines 15-36),

the on-screen information includes, for each of the on-screen graphics, a combination of (a) display status information for indicating a state in which the content is displayed, and (b) a data and time (Col. 11, lines 37-64); and

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the display control unit, upon displaying each of the plurality of contents, displays the on-screen graphics in the state indicated by the initial state information, and in the case where the time information judging unit judges that the instruction should be executed, changes the state of the on-screen graphics being displayed, by executing the instruction (Col. 12 lines 29-41).

As for Claim 48, Throckmorton and Shoff disclose the data display control apparatus of claim 44, in particular Shoff teaches wherein the time information judging unit judges that the instruction should be executed when the present time obtained reaches the time indicated by the time control information (Col. 9 lines 52-61).

As for Claim 49, Throckmorton and Shoff disclose the data display control apparatus of claim 44, in particular Shoff teaches wherein each of the plurality of contents includes on-screen information for forming on-screen graphics; the display control unit displays the on-screen graphics according to the on-screen information; and the time information judging unit judges that the instruction should be executed in the case where the present time obtained reaches the time indicated by the time control information while the on-screen graphics are being displayed (see Col. 11 lines 45-64).

As for Claim 50, Throckmorton and Shoff disclose the data display control apparatus of claim 44, in particular Shoff teaches wherein each of the plurality of contents further includes audio data (sound file) and reproduction time control

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information for indicating a time at which the audio data is to be reproduced (Col. 9, lines 1-7); and the data display control apparatus controls reproduction of the audio data according to the time indicated by the reproduction time control information (Col. 8 lines 44-53).

As for Claim 52, Throckmorton and Shoff disclose the data display control apparatus of claim 44, in particular Shoff teaches wherein the present time information obtaining unit obtains the present time by measuring an elapsed time from a certain standard timing (Col. 10 lines 5-25).

5. Claims 54-55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Throckmorton in view of Shoff in view of Klappert et al. "Klappert" (USPN 6,256,785).

Regarding Claim 54, Throckmorton discloses a data display control apparatus (34 – figure 2) comprising:

- a receiving unit (36 – figure 3) for receiving a...transport stream having a plurality of contents therein which make up a broadcast program (Col. 6, lines 29-30);

- an extracting unit (36 – figure 3) for separating data necessary for a display of each of the plurality of contents from the...transport stream received by the receiving unit (Col. 6, lines 31-35);

- a data storage unit (80 – figure 3) for storing the separated data (Col. 7, lines 30-47; Col. 3, lines 12-14);

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a display control unit (84 – figure 3) for controlling the display of the plurality of contents in response to performance of an interactive operation by the user...(Col. 7, lines 36-52).

However, Throckmorton fails to disclose a receiving unit for receiving an MPEG 2 transport stream, a display control unit, a present time information obtaining unit, and a time information judging unit.

In analogous art, Shoff discloses a data display control apparatus (18 – figures 1 & 2), comprising:

a receiving unit (50 – figure 2) for receiving an MPEG 2 transport stream having a plurality of contents therein which make up a broadcast program (Col. 2 lines 59–67, Col. 3 lines 14–20), the plurality of contents each being a unit of information for which interactive operations are provided to a user to be performed (Col. 6 lines 17–38), each unit of information including link information for indicating at least one of the other units of information (Col. 6 lines 47–50), whereby performance of one of the interactive operations provided to the user by the unit of information being displayed will cause the linked unit of information to be displayed (Col. 6 lines 20–28);

an extracting unit (58 – figure 2) for separating data necessary for a display of each of the plurality of contents from the MPEG 2 transport stream received by the receiving unit (Col. 5 lines 39–45, Col. 7 line 66 – Col. 8 line 10);

a data storage unit (60 – figure 2) for storing the separated data (Col. 8 lines 8–10);

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a display control unit (58 – figure 2) for controlling the display of the plurality of contents in response to performance of an interactive operation by the user (Col. 5 lines 46–59, Col. 6 line 55 – Col. 7 line 24), wherein each of the plurality of contents has at least one instruction for controlling the display of the content and time control information for indicating a time at which the instruction is to be executed (Col. 9 line 66 – Col. 10 line 10), and link information for indicating at least one of the other contents before the time specified by the time control information (Col. 10 lines 36-49);

a present time information obtaining unit (system clock) for obtaining a present time (Col. 9 lines 58-61); and

a time information judging unit for judging whether the instruction should be executed by comparing the present time with the time indicated by the time control information (Col. 9 lines 58-61), wherein

the display control unit (58 – figure 2), in the case where the time information judging unit judges that the instruction should be executed, changes the display of the currently displayed content by executing the instruction (Col. 9 lines 50-65).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Throckmorton to include a receiving unit for receiving an MPEG 2 transport stream, a display control unit, a present time information obtaining unit, and a time information judging unit as taught by Shoff for the benefit of providing users the ability to interact with external data sources by simulating two-way connectivity over a one-way data stream.

However, the combination of Throckmorton and Shoff fail to disclose when the display control unit displays the content, the extracting unit separates the time information from the MPEG 2 transport stream received by the receiving unit and the present time information obtaining unit obtains the present time from storage.

In an analogous art, Klappert discloses a data display control apparatus (112 – figure 9) comprising: a receiving unit (404 – figure 9); an extracting unit (406 – figure 9); a data storage unit (408 – figure 9); a display control unit (414 – figure 9); and a present time information obtaining unit (410 – figure 9).

Klappert further teaches when the display control unit displays the content (Col. 8, lines 43-45), the extracting unit separates the time information from the MPEG 2 transport stream received by the receiving unit (Col. 8, lines 55-62), and stores the time information in the data storage unit (Col. 5, lines 42-62; Col. 8, lines 6-20 & 35-62).

Klappert discloses the present time information obtaining unit obtains the present time by specifying the present time in accordance with the time information stored in the data storage unit (Col. 7, line 59 to Col. 8, line 32; Col. 8, line 48 to Col. 9, line 5).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Throckmorton and Shoff to include when the display control unit display the content, the extracting unit separates the time information from the MPEG 2 transport stream received by the receiving unit and the present time information obtaining unit obtains the present time from storage as taught by Klappert, for the benefit of receiving video information and protocol data and providing a user with a system having the look-and-feel of interactivity.

Regarding Claim 55, Throckmorton discloses a data display control apparatus (34 – figure 2) that receives a plurality of pieces of content data repeatedly transmitted from a transmission system (10,14,16,20,26,30 – figure 2) via a one-way communication path (32 – figure 2), and changes display of the received content data in accordance with interactive operations input by a user (Col. 4, lines 28-33), without accessing a headend (Col. 4, lines 6-15), the plurality of pieces of content data have been linked to each other by hyperlinks and multiplexed (Col. 5, lines 21-31), the data display control apparatus comprising:

- a receiving unit (36 – figure 3) for receiving a...transport stream having a plurality of contents therein which make up a broadcast program (Col. 6, lines 29-30);

- an extracting unit (36 – figure 3) for separating data necessary for a display of each of the plurality of contents from the...transport stream received by the receiving unit (Col. 6, lines 31-35);

- a data storage unit (80 – figure 3) for storing the separated data (Col. 7, lines 30-47; Col. 3, lines 12-14);

- a display control unit (84 – figure 3) for controlling the display of the plurality of contents in response to performance of an interactive operation by the user...(Col. 7, lines 36-52).

However, Throckmorton fails to disclose a receiving unit for receiving an MPEG 2 transport stream, a display control unit, a present time information obtaining unit, and a time information judging unit.

In analogous art, Shoff discloses a data display control apparatus (18 – figures 1 & 2), comprising:

a receiving unit (50 – figure 2) for receiving an MPEG 2 transport stream having a plurality of contents therein which make up a broadcast program (Col. 2 lines 59–67, Col. 3 lines 14–20), the plurality of contents each being a unit of information for which interactive operations are provided to a user to be performed (Col. 6 lines 17–38), each unit of information including link information for indicating at least one of the other units of information (Col. 6 lines 47–50), whereby performance of one of the interactive operations provided to the user by the unit of information being displayed will cause the linked unit of information to be displayed (Col. 6 lines 20–28);

an extracting unit (58 – figure 2) for separating data necessary for a display of each of the plurality of contents from the MPEG 2 transport stream received by the receiving unit (Col. 5 lines 39–45, Col. 7 line 66 – Col. 8 line 10);

a data storage unit (60 – figure 2) for storing the separated data (Col. 8 lines 8–10);

a display control unit (58 – figure 2) for controlling the display of the plurality of contents in response to performance of an interactive operation by the user (Col. 5 lines 46–59, Col. 6 line 55 – Col. 7 line 24), wherein each of the plurality of contents has at least one instruction for controlling the display of the content and time control information for indicating a time at which the instruction is to be executed (Col. 9 line 66 – Col. 10 line 10), and link information for indicating at least one of the other contents before the time specified by the time control information (Col. 10 lines 36–49);

a present time information obtaining unit (system clock) for obtaining a present time (Col. 9 lines 58-61); and

a time information judging unit for judging whether the instruction should be executed by comparing the present time with the time indicated by the time control information (Col. 9 lines 58-61), wherein

the display control unit (58 – figure 2), in the case where the time information judging unit judges that the instruction should be executed, changes the display of the currently displayed content by executing the instruction (Col. 9 lines 50-65), and the display control unit executes an instruction specified by handler information included in the MPEG 2 transport stream in response to performance by the user of one of the interactive operations by the user, to change the currently displayed content into one of the other contents indicated by the link information included in the currently displayed content (Col. 8, line 44 – Col. 9, line 1).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Throckmorton to include a receiving unit for receiving an MPEG 2 transport stream, a display control unit, a present time information obtaining unit, and a time information judging unit as taught by Shoff for the benefit of providing users the ability to interact with external data sources by simulating two-way connectivity over a one-way data stream.

However, the combination of Throckmorton and Shoff fail to disclose when the display control unit displays the content, the extracting unit separates the time

information from the MPEG 2 transport stream received by the receiving unit and the present time information obtaining unit obtains the present time from storage.

In an analogous art, Klappert discloses a data display control apparatus (112 – figure 9) comprising: a receiving unit (404 – figure 9); an extracting unit (406 – figure 9); a data storage unit (408 – figure 9); a display control unit (414 – figure 9); and a present time information obtaining unit (410 – figure 9).

Klappert further teaches when the display control unit displays the content (Col. 8, lines 43-45), the extracting unit separates the time information from the MPEG 2 transport stream received by the receiving unit (Col. 8, lines 55-62), and stores the time information in the data storage unit (Col. 5, lines 42-62; Col. 8, lines 6-20 & 35-62).

Klappert discloses the present time information obtaining unit obtains the present time by specifying the present time in accordance with the time information stored in the data storage unit (Col. 7, line 59 to Col. 8, line 32; Col. 8, line 48 to Col. 9, line 5).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Throckmorton and Shoff to include when the display control unit display the content, the extracting unit separates the time information from the MPEG 2 transport stream received by the receiving unit and the present time information obtaining unit obtains the present time from storage as taught by Klappert, for the benefit of receiving video information and protocol data and providing a user with a system having the look-and-feel of interactivity.

6. Claim 51 is rejected under 35 U.S.C. 103(a) as being unpatentable over Throckmorton in view of Shoff as applied to claim 44 above, and further in view of Klappert.

As for Claim 51, Throckmorton and Shoff disclose the data display control apparatus of claim 44, but fail to disclose timing information for indicating a time at which the content has been transmitted, when the display control unit displays the content, the extracting unit separates the time information from the MPEG 2 transport stream received by the receiving unit and the present time information obtaining unit obtains the present time from storage.

In an analogous art, Klappert discloses a data display control apparatus (112 – figure 9) comprising: a receiving unit (404 – figure 9); an extracting unit (406 – figure 9); a data storage unit (408 – figure 9); a display control unit (414 – figure 9); and a present time information obtaining unit (410 – figure 9).

Klappert further teaches each of the plurality of contents include time information for indicating a time at which the content has been transmitted (figure 8; Col. 8, lines 6-62).

Klappert discloses when the display control unit displays the content (Col. 8, lines 43-45), the extracting unit separates the time information from the MPEG 2 transport stream received by the receiving unit (Col. 8, lines 55-62), and stores the time information in the data storage unit (Col. 5, lines 42-62; Col. 8, lines 6-20 & 35-62).

Klappert further discloses the present time information obtaining unit obtains the present time by specifying the present time in accordance with the time information

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stored in the data storage unit (Col. 7, line 59 to Col. 8, line 32; Col. 8, line 48 to Col. 9, line 5).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Throckmorton and Shoff to include when the display control unit display the content, the extracting unit separates the time information from the MPEG 2 transport stream received by the receiving unit and the present time information obtaining unit obtains the present time from storage as taught by Klappert, for the benefit of receiving video information and protocol data and providing a user with a system having the look-and-feel of interactivity.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chris Parry whose telephone number is (571) 272-8328. The examiner can normally be reached on Monday through Friday, 8:00 AM EST to 4:00 PM EST.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Grant can be reached on (571) 272-7294. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Chris Parry
Examiner
Art Unit 2623

/CP/



CHRISTOPHER GRANT
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600